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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer to the claimed and/or disclosed subject matter, and Assignee reserves the right to claim this subject matter and/or other disclosed subject matter in a continuing application.

1. (currently amended) A camera, comprising:
 - a camera lens;
 - acquisition circuitry capable of receiving images via said camera lens, capable of acquiring a first field of view if said camera lens is in a first orientation and capable of acquiring a second field of view if said camera lens is in a second orientation;
 - a viewfinder displaying the second field of view if said camera lens is in the second orientation and displaying at least a portion of the first field of view at least partially composited with the second field of view; and
 - rectilinear-to-cylindrical conversion circuitry capable of converting the first and second fields of view from rectilinear coordinates to cylindrical coordinates; and
 - cylindrical-to-rectilinear conversion circuitry capable of converting a selected portion of a panoramic image from cylindrical coordinates to rectilinear coordinates.
2. (previously presented) The camera of claim 1, wherein the second field of view at least partially overlaps the first field of view.
3. (previously presented) The camera of claim 1, wherein a size of the at least a portion of the first field of view is capable of being prescribed.
4. (previously presented) The camera of claim 3, wherein the size of the at least a portion of the first field of view is capable of being prescribed relative to a size of the first field of view.
5. (previously presented) The camera of claim 3, wherein the size of the at least a portion of the first field of view is capable of being prescribed relative to a size of the second field of view.

6. (currently amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view comprises at its width, and the size of the second field of view comprises at its width.

7. (currently amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view comprises at its height, and the size of the second field of view comprises at its height.

8. (currently amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view comprises the field of view angle the size of the at least a portion of the first field of view it subtends, and the size of the second field of view comprises the field of view angle the size of the at least a portion of the second field of view it subtends.

9. (currently amended) The camera of claim 5, wherein the size of the at least a portion of the first field of view is capable of being prescribed to an amount between about 20% and about 40% of the size of the second field of view.

10. (previously presented) The camera of claim 1, wherein the at least a portion of the first field of view is capable of being composited with the second field of view by an opacity of approximately 50%.

11. (previously presented) The camera of claim 1, wherein the at least a portion of the first field of view is capable of being composited with the second field of view by an opacity of approximately 100%.

12. (currently amended) The camera of claim 1, wherein the focus of said camera lens is capable of not being ~~not~~ changed during acquisition of the first and second fields of view.

13. (currently amended) The camera of claim 1, further comprising a lens focus lock capable of locking at the focus of said camera lens during acquisition of the first and second fields of view.

14. (previously presented) The camera of claim 1, further comprising combining circuitry capable of combining the first and second fields of view.

15. (currently amended) The camera of claim 14, wherein the first and second fields of view comprise portions of a scene and wherein said combining circuitry is capable of combining the first and second fields of view into thea panoramic image of the scene.

16. (previously presented) The camera of claim 15, wherein said panoramic image comprises a cylindrical geometry.

17. (Cancelled)

18. (previously presented) The camera of claim 15, wherein said panoramic image comprises a spherical geometry.

19. (previously presented) The camera of claim 15, further comprising rectilinear-to-spherical conversion circuitry capable of converting the first and second fields of view from rectilinear coordinates to spherical coordinates.

20. (previously presented) The camera of claim 15, further comprising view control circuitry capable of selecting a portion of the panoramic image to display, and wherein said viewfinder is capable of displaying the selected portion of the panoramic image.

21. (currently amended) The camera of claim 15, wherein said panoramic image comprises a cylindrical geometry, and said camera further comprises cylindrical-to-rectilinear conversion circuitry capable of converting the selected portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

22. (previously presented) The camera of claim 15, wherein said panoramic image comprises a spherical geometry, and said camera further comprises spherical-to-rectilinear conversion circuitry capable of converting the selected portion of the panoramic image from spherical coordinates to rectilinear coordinates.

23. (previously presented) The camera of claim 1, wherein said acquisition circuitry is capable of acquiring at least one additional field of view with said camera lens being in at least one additional orientation, and wherein said viewfinder is capable of displaying an additional field of view of said camera lens when said camera lens is in each additional orientation and is capable of displaying at least a portion of at least one previously acquired field of view at least partially composited with the additional field of view.

24. (previously presented) The camera of claim 23, wherein each additional field of view is capable of at least partially overlapping the at least one previously acquired field of view.

25. (previously presented) The camera of claim 23, wherein the at least a portion of the at least one previously acquired field of view is capable of being composited with the additional field of view by an opacity of approximately 50%.

26. (previously presented) The camera of claim 23, wherein the at least a portion of the at least one previously acquired field of view is capable of being composited with the additional field of view by an opacity of approximately 100%.

27. (currently amended) The camera of claim 23, wherein at the focus of said camera lens is unchanged during acquisition of the first and second and the at least one additional fields of view.

28. (currently amended) The camera of claim 23, further comprising a lens focus lock capable of locking at the focus of said camera lens during acquisition of the first and second and the at least one additional fields of view.

29. (previously presented) The camera of claim 23, further comprising combining circuitry capable of combining the first and second and the last least one additional fields of view.

30. (previously presented) The camera of claim 29, wherein the first and second and the at least one additional fields of view comprise portions of a scene and wherein said

combining circuitry is capable of combining the first and second and the at least one additional fields of view into a panoramic image of the scene.

31. (previously presented) The camera of claim 1, further comprising perspective conversion circuitry capable of converting a perspective of the at least a portion of the first field of view from the first orientation to the second orientation.

32. (previously presented) The camera of claim 31, wherein said perspective conversion circuitry comprises line processing circuitry capable of determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view.

33. (previously presented) The camera of claim 32, wherein said line processing circuitry is capable of determining modified color values at pixel locations within vertical lines of the converted at least a portion of the first field of view based at least in part on unmodified color values at a corresponding vertical line of the at least a portion of the first field of view.

34. (previously presented) The camera of claim 32, wherein said line processing circuitry is capable of rescaling vertical lines of the at least a portion of the first field of view.

35. (previously presented) The camera of claim 1, further comprising an indicator capable of indicating when said camera lens is in the second orientation.

36. (previously presented) The camera of claim 35, wherein said indicator comprises a light source.

37. (previously presented) The camera of claim 35, wherein said indicator comprises a beeper.

38-122. (Canceled)

123. (currently amended) A method, comprising:
acquiring a first image;

acquiring a second image;

converting at least a portion of the first and second images from a rectilinear-based view to a cylindrical-based view based at least in part on upon a conversion from rectilinear to cylindrical coordinates; and

converting at least a portion of the cylindrical-based view to a rectilinear-based view based at least in part on a conversion from cylindrical to rectilinear coordinates; and

displaying at least a selected portion of the rectilinear-based view converted from the cylindrical-based view.

124. (previously presented) The method according to claim 123, further comprising compositing the at least a portion of the first and second images.

125. (previously presented) The method according to claim 123, further comprising displaying the at least a portion of the first and second images.

126. (previously presented) The method according to claim 123, further comprising combining the at least a portion of the first and second images into a panoramic image.

127. (previously presented) The method according to claim 126, wherein said panoramic image comprises a cylindrical geometry.

128. (previously presented) The method according to claim 126, wherein said panoramic image comprises a spherical geometry.

129. (previously presented) The method according to claim 126, further comprising converting the at least a portion of first and second images from rectilinear coordinates to spherical coordinates.

130. (currently amended) The method according to claim 126, wherein said panoramic image comprises a cylindrical geometry and further comprising converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

131. (previously presented) The method according to claim 123, further comprising converting a perspective of a portion of the first image from a first orientation to a second orientation.

132. (previously presented) The method according to claim 131, wherein said perspective converting further comprises line processing which comprises determining modified color values at pixel locations within vertical lines of a portion of the first image.

133. (previously presented) The method according to claim 132, wherein said line processing further comprises determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

134. (previously presented) The method according to claim 132, wherein said line processing further comprises rescaling vertical lines of the portion of the first image.

135. (currently amended) A system, comprising:

means for acquiring a first image;

means for acquiring a second image;

means for converting at least a portion of the first and second image from a rectilinear-based view to a cylindrical-based view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and

means for converting at least a portion of the cylindrical-based view to a rectilinear-based view based at least in part on a conversion from cylindrical to rectilinear coordinates; and

means for displaying at least a selected portion of the rectilinear-based view converted from the cylindrical-based view.

136. (previously presented) The system according to claim 135, further comprising means for compositing the at least a portion of the first and second views.

137. (previously presented) The system according to claim 135, further comprising means for displaying the at least a portion of the first and second images.

138. (previously presented) The system according to claim 135, further comprising means for converting the at least a portion of the first and second images from rectilinear coordinates to spherical coordinates.

139. (previously presented) The system according to claim 135, further comprising means for combining the at least a portion of the first and second images into a panoramic image.

140. (currently amended) The system according to claim 139, wherein said panoramic image comprises a cylindrical geometry and further comprising means for converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.

141. (previously presented) The system according to claim 135, further comprising means for converting a perspective of a portion of the portion of the first image from a first orientation to a second orientation.

142. (previously presented) The system according to claim 141, wherein said means for perspective converting further comprises means for line processing which comprises means for determining modified color values at pixel locations within vertical lines of a portion of the portion of the first image.

143. (previously presented) The system according to claim 142, wherein said means for line processing further comprises means for determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

144. (previously presented) The system according to claim 142, wherein said means for line processing further comprises means for rescaling vertical lines of the portion of the first image.

145. (currently amended) An article comprising a storage medium having stored thereon instructions, which, when if executed by a machine, result in:

acquiring a first image;

acquiring a second image;

converting at least a portion of the first and second image from a rectilinear-based view to a cylindrical-based view based at least in part upon a conversion from rectilinear to cylindrical coordinates; and

converting at least a portion of the cylindrical-based view to a rectilinear-based view based at least in part on a conversion from cylindrical to rectilinear coordinates; and

displaying at least a selected portion of the rectilinear-based view converted from the cylindrical-based view.

146. (previously presented) The article according to claim 145, further comprising compositing the at least a portion of the first and second views.

147. (previously presented) The article according to claim 145, further comprising displaying the at least a portion of the first and second images.

148. (previously presented) The article according to claim 145, further comprising converting the at least a portion of the first and second images from rectilinear coordinates to spherical coordinates.

149. (previously presented) The article according to claim 145, further comprising combining the at least a portion of first and second images into a panoramic image.

150. (currently amended) The article according to claim 149, wherein said panoramic image comprises a cylindrical geometry and ~~further comprising converting a portion of the panoramic image from cylindrical coordinates to rectilinear coordinates.~~

151. (previously presented) The article according to claim 145, further comprising converting a perspective of a portion of the first image from a first orientation to a second orientation.

152. (previously presented) The article according to claim 151, wherein said perspective converting further comprises line processing which comprises determining modified color values at pixel locations within vertical lines of a portion of the first image.

153. (previously presented) The article according to claim 152, wherein said line processing further comprises determining modified color values at pixel locations within vertical lines of the portion of the first image based at least in part on unmodified color values at a corresponding vertical line of the portion of the first image.

154. (previously presented) The article according to claim 152, wherein said line processing further comprises rescaling vertical lines of the portion of the first image.